Exogenous AVP in Normals and ESRD

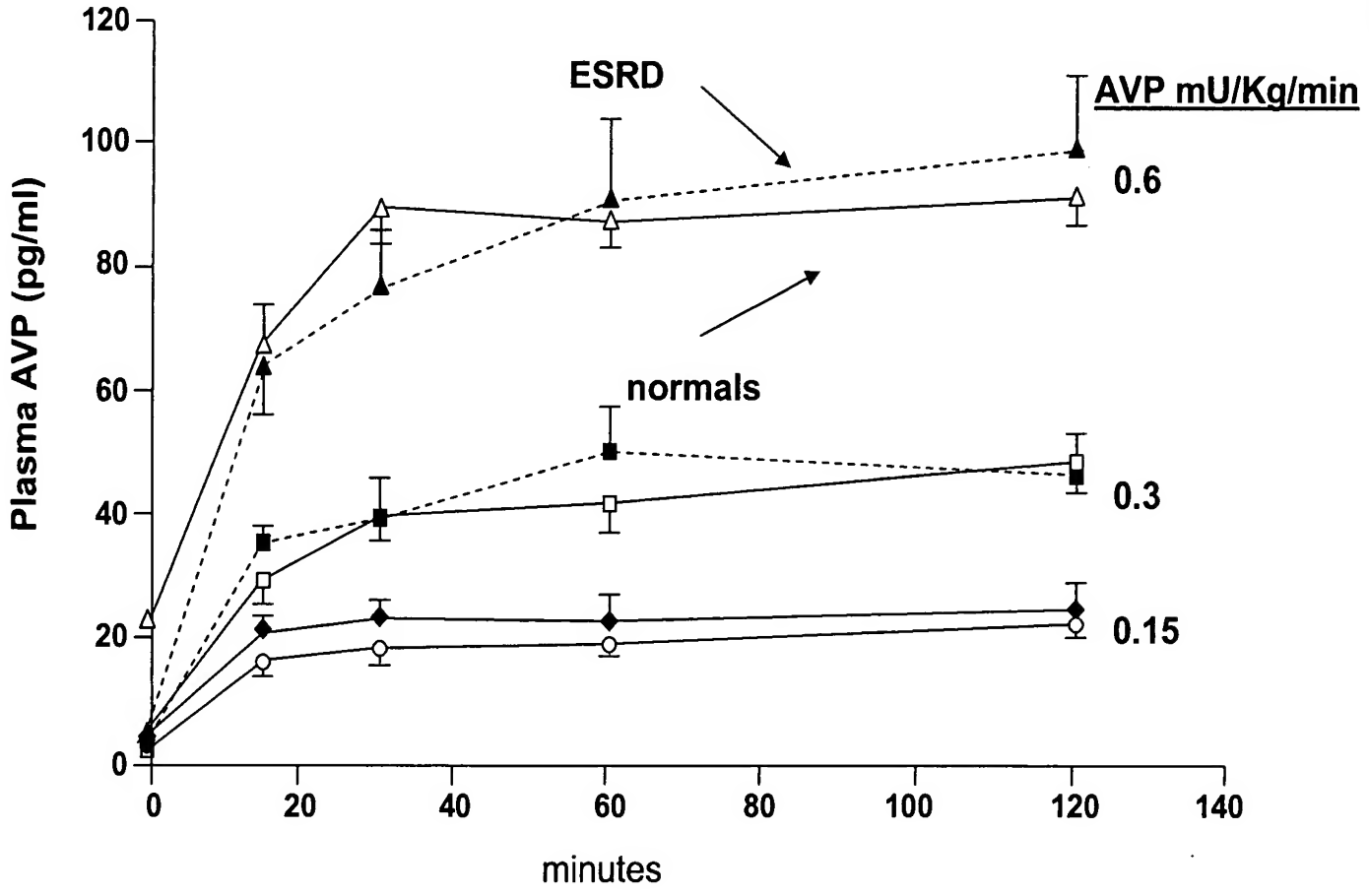

Figure 1

AVP is not Dialyzable

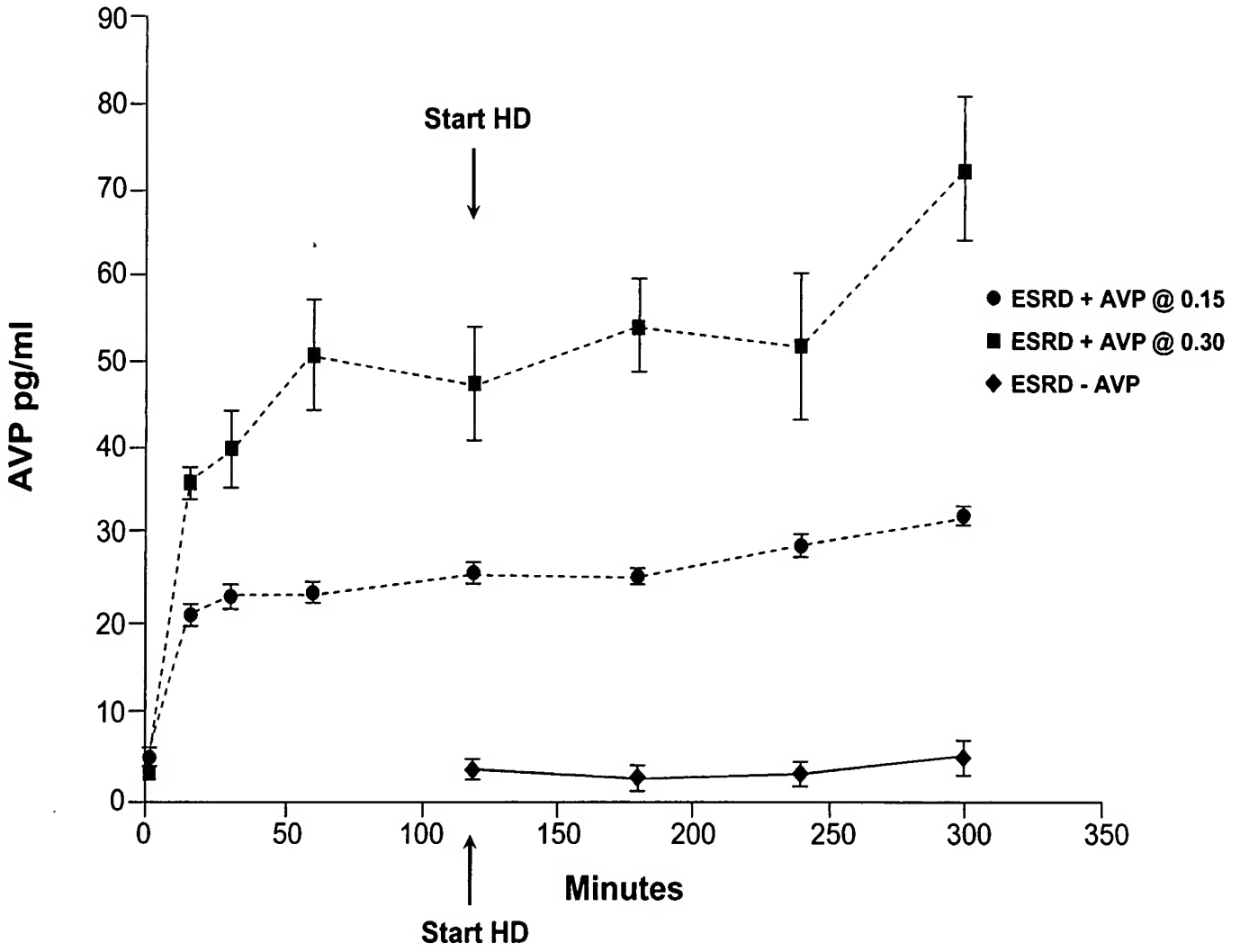

Figure 2

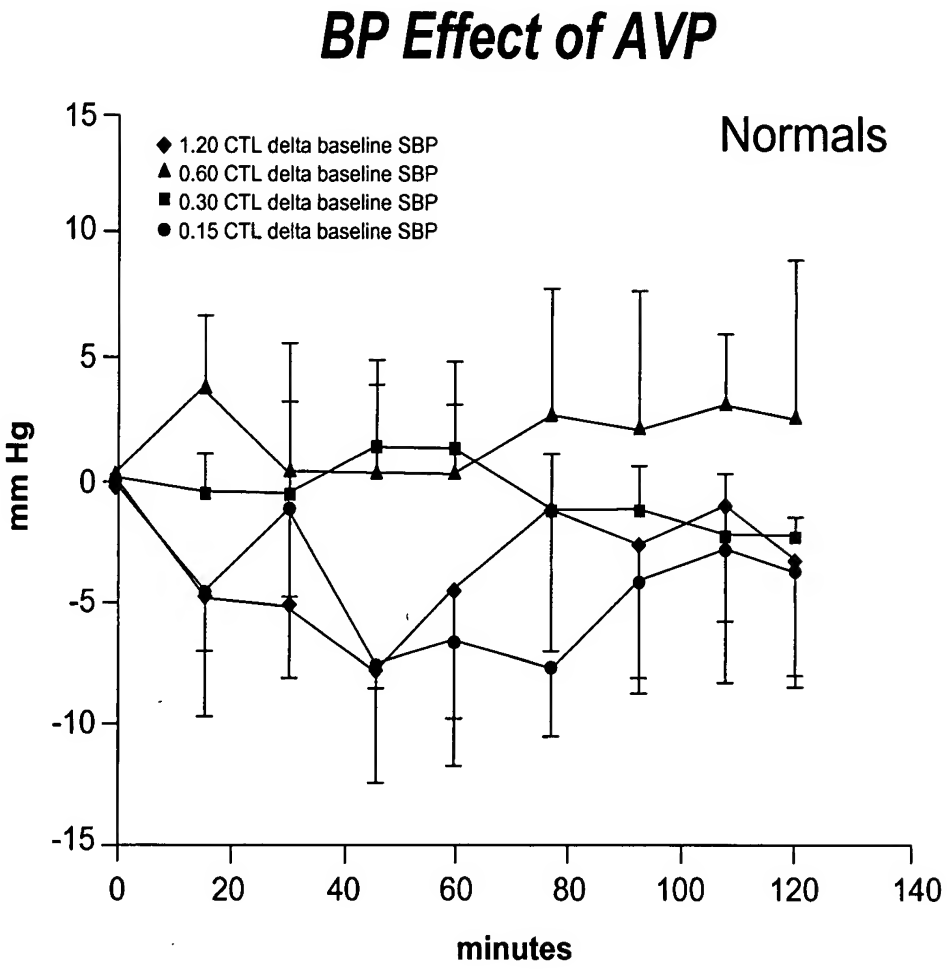
BP Effect of AVP
Normals
1.20 CTL delta baseline SBP
0.60 CTL delta baseline SBP
0.30 CTL delta baseline SBP
0.15 CTL delta baseline SBP
mm Hg
15
10
5
0
-5
-10
-15
0
20
40
60
80
100
120
140
minutes

Figure 3A

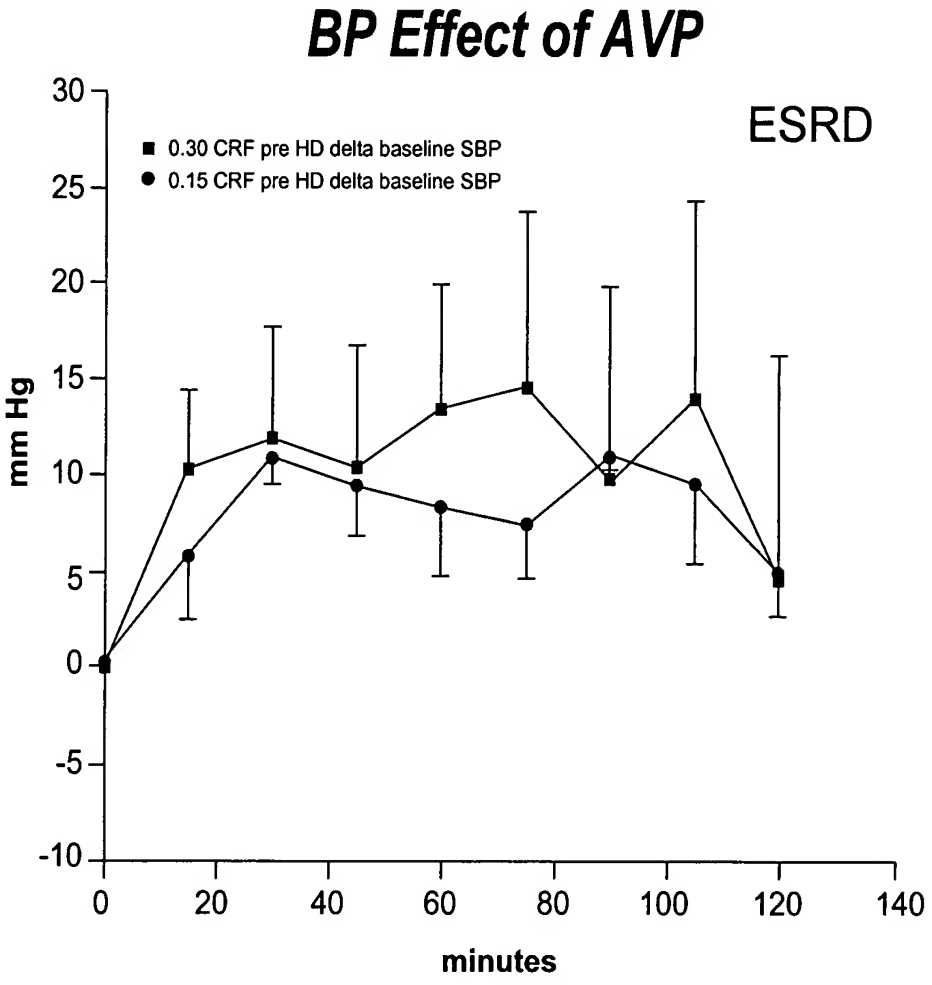
BP Effect of AVP
ESRD
0.30 CRF pre HD delta baseline SBP
0.15 CRF pre HD delta baseline SBP
mm Hg
30
25
20
15
10
5
0
-5
-10
0
20
40
60
80
100
120
140
minutes

Figure 3B

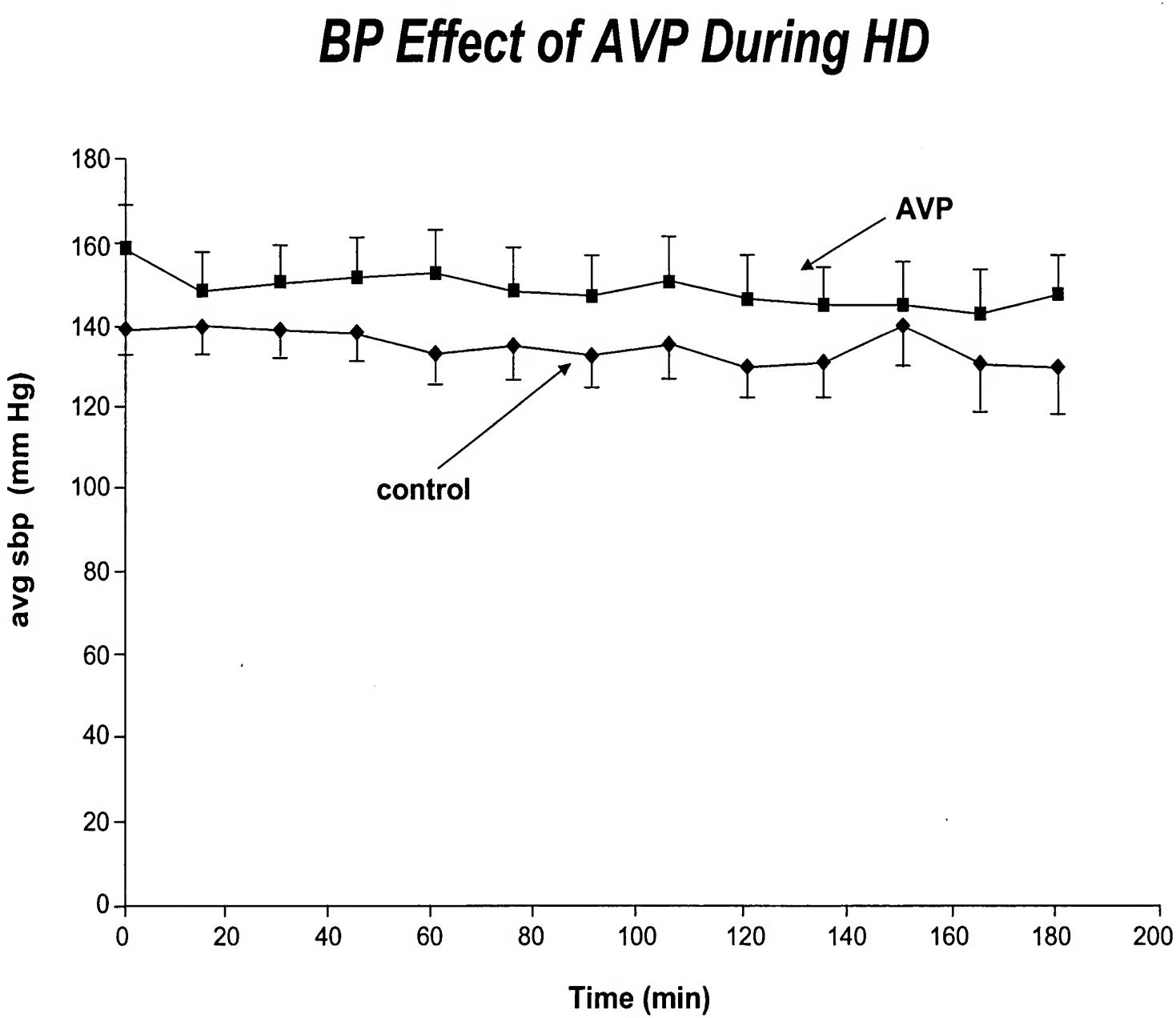
BP Effect of AVP During HD
avg sbp (mm Hg)
180
160
140
120
100
80
60
40
20
0
AVP
control
0
20
40
60
80
100
120
140
160
180
200
Time (min)

Figure 4

Effect of Exogenous AVP on Overall Mean Blood Pressure During HD

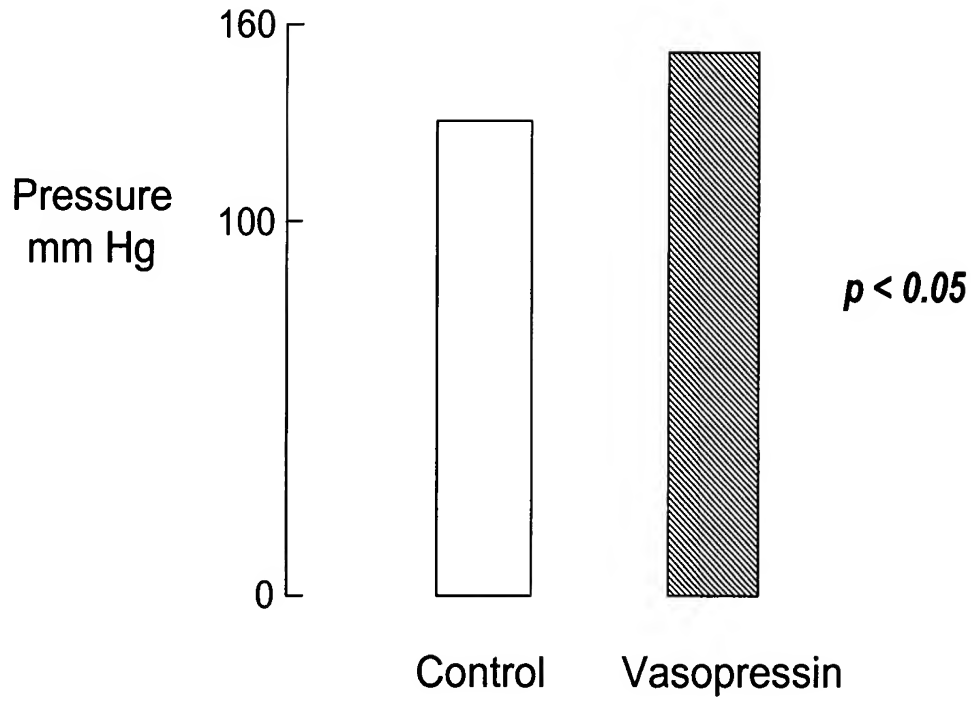

Figure 5

Greater Fluid Removal During HD by AVP Administration

	Control	*Vasopressin*	
	Total Fluids	**Total Fluids**	**Infusion Rate ($mU\ kg^{-1}min^{-1}$)**
Patient 1	300cc NS	None	0.15
Patient 2	300cc NS	None	0.15
Patient 3	300cc NS, 250cc 5% Albumin, 100cc SPA	None	0.15
Patient 4	200cc NS	None	0.30
Patient 5	None	None	0.30

Figure 6

Greater Fluid Removal by Hemodialysis with AVP

The removal of 0.5 Kg extra fluid by hemodialysis was attempted in 10 patients, 5 of which received 0.3 mU/Kg/min AVP and the other 5 received placebo

- **in the 5 patients on AVP, the blood pressure was stable and extra fluid removal was possible**

- **two of the 5 patients receiving placebo had an episode of low blood pressure that prevented the removal of extra fluid**

Figure 7

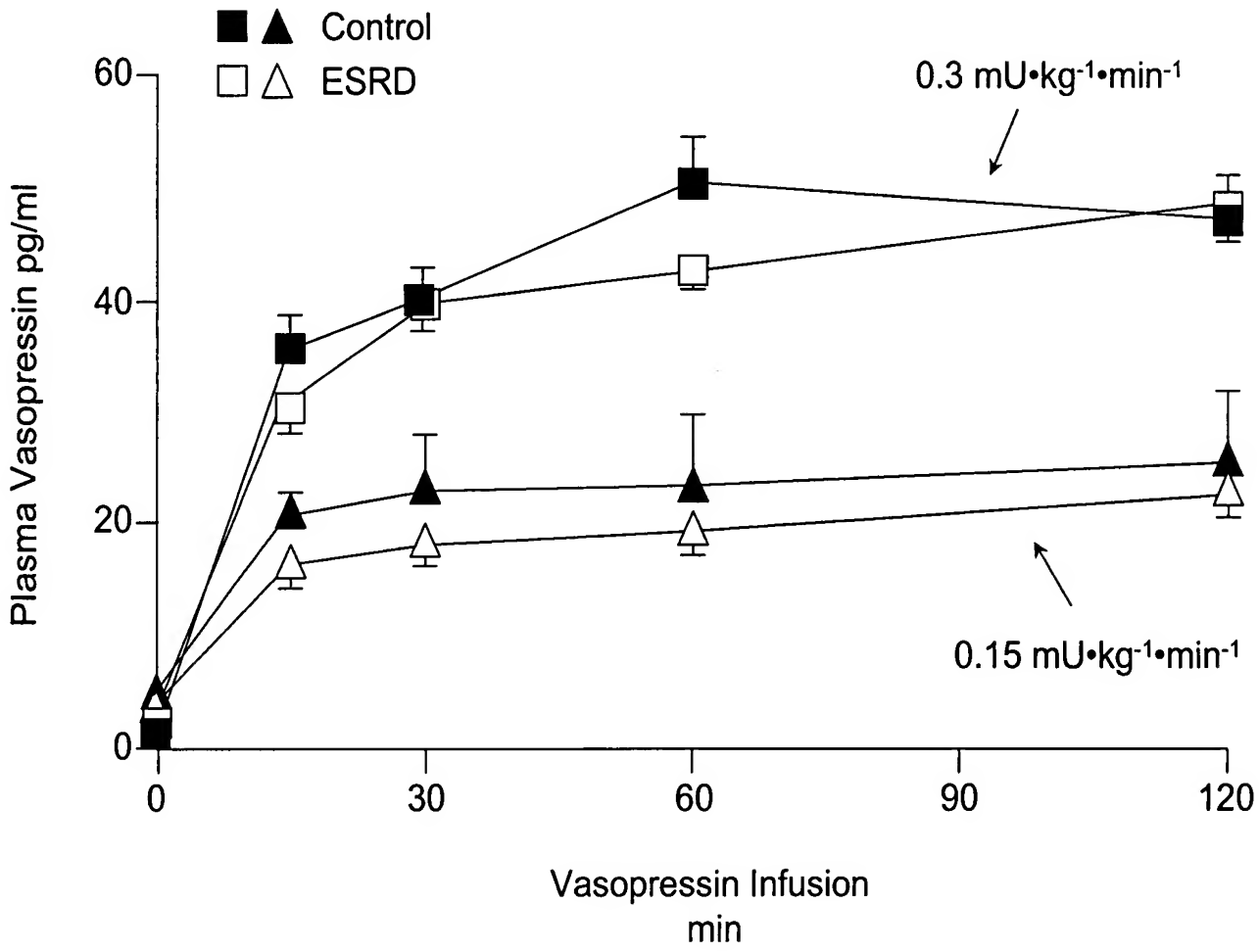
Control
ESRD
0.3 mU•kg-1•min-1
0.15 mU•kg-1•min-1
Plasma Vasopressin pg/ml
60
40
20
0
0
30
60
90
120
Vasopressin Infusion
min

Figure 8

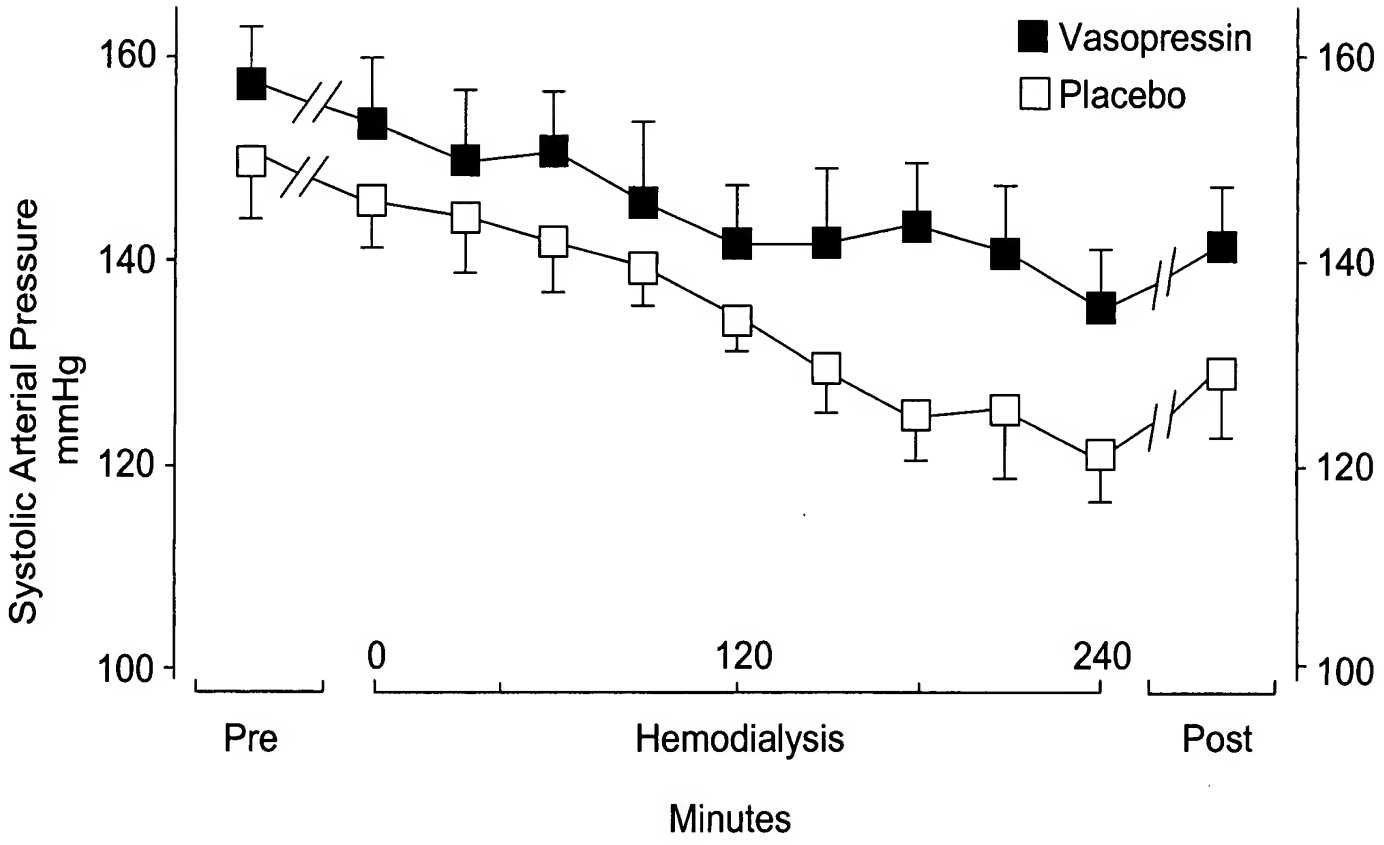
Vasopressin
Placebo
160
140
120
100
Systolic Arterial Pressure
mmHg
0
120
240
Pre
Hemodialysis
Post
Minutes

Figure 9

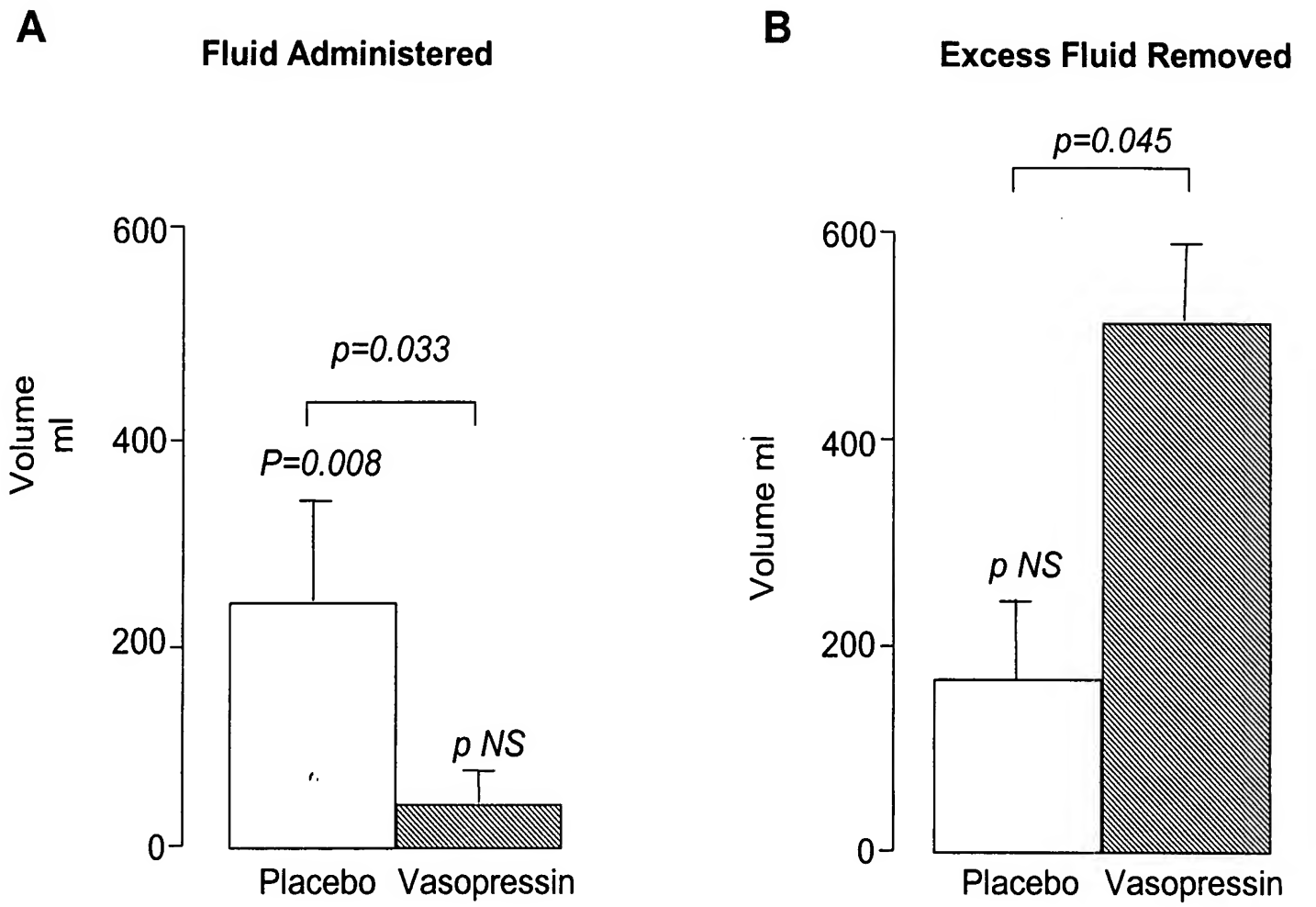
A
Fluid Administered
Volume ml
600
400
200
0
p=0.033
P=0.008
p NS
Placebo
Vasopressin
B
Excess Fluid Removed
p=0.045
Volume ml
600
400
200
0
p NS
Placebo
Vasopressin

Figure 10